

IN THE CLAIMS

Please amend the claims of the present application under the provisions of 37 C.F.R. §1.121(c), as indicated below:

1. (Currently amended) Telecommunications and telephony network (AT), which can control mobile or fixed services, of the type comprising at least one network exchange core, which guarantees integrated connectivity between a plurality of local exchanges (CL) and local residents' exchanges, ~~characterised~~ characterized in that each of the said local exchanges (CL) includes means for compression and conversion (GV) and means (R) for routing, which can send telecommunications and telephone flows which are incorporated, ~~digitised~~ digitized, and based on at least one pre-determined protocol, local users (UL) also being able to reach the said local exchanges (CL) by means of bidirectional satellite radio bridges (RLD).
2. (Currently amended) Telecommunications and telephony network (AT) according to claim 1, ~~characterised~~ characterized in that the said means for compression and conversion (GV) transform the digital or analogue signals which contain the information into data packages which are based on the said pre-determined protocol, also implementing algorithms for compression of the information.
3. (Currently amended) Telecommunications and telephony network (AT) according to claim 1, ~~characterised~~ characterized in that the said pre-determined protocol consists of an IP protocol (Internet Protocol).
4. (Currently amended) Telecommunications and telephony network (AT) according to claim 1, ~~characterised~~ characterized in that it comprises an architecture which is based on different levels, which are subdivided hierarchically, wherein the lowest levels comprise a first series of connections (C0, C1) of the said local users (UL) to devices (MD) for processing the signal, and of the said devices (MD) for processing, to the said local exchanges (GV).

5. (Currently amended) Telecommunications and telephony network (AT) according to claim 4, ~~characterised~~ characterized in that the said architecture comprises a series of high levels, relative to connections, (C2) between the said local exchanges (GV), a series of local resident, regional and national exchanges, and a plurality of nodes for access to networks of further network service companies (AG), the said architecture also being based on transport in an urban area with a plurality of remote cells (CR).

6. (Currently amended) Telecommunications and telephony network (AT) according to claim 1, ~~characterised~~ characterized in that, downstream from each of the said means (R) for routing, the digital signals (C6) travel to at least one satellite connection node (ST), or are sent to at least one other point of the said network (AT).

7. (Currently amended) Telecommunications and telephony network (AT) according to claim 6, ~~characterised~~ characterized in that the connections between the various points of the said network (AT) are formed with a type of direct connection between the said devices (MD) for processing and the said local exchanges (CL), or by means of a connection formed by means of intermediate repeaters between the devices (MD) for processing and the local exchanges (CL).

8. (Currently amended) Telecommunications and telephony network (AT) according to claim 7, ~~characterised~~ characterized in that there leads to each of the said local exchanges (CL) at least one flow of data (C7) of the type E1, with 2 Mbits, standard G. 703, obtained from the said devices (MD) for processing the local signal, or from accesses to the networks of other service companies (AG), based on SS7 standard data flows (C8), individual connections to local users, and/or points of access for mobile telephony.

9. (Currently amended) Telecommunications and telephony network (AT) according to claim 3, ~~characterised~~ characterized in that the said means (R) for routing carry out a process of routing of the telephone calls, based on the telephone numeration which is specific to the telephone networks, replacing the standard telephone numeration at network level with addresses according to the said IP protocol, whereas the said means for conversion and compression (GV) are able to implement algorithms for compression of the digital signals relative to the vocal information, and to the

addressing within the IP protocol standard, thus obtaining a programmable, variable reduction in the flows of data, which is up to 10 times or more than the nominal value.

10. (Original) Telecommunications and telephony network (AT), substantially as described and claimed and for the purposes specified.